DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS
2000 NAVY PENTAGON
WASHINGTON, DC 20350-2000

6470
Ser N45/14U132743
27 Aug 14

From: Chairman, Naval Radiation Safety Committee
To: Commanding Officer, Explosive Ordnance Disposal Training & Evaluation Unit TWO

Subj: NAVAL RADIOACTIVE MATERIALS PERMIT NO. 45-43505-B1NP AMENDMENT NO. 3CC

Ref: (a) Registry of Radioactive Sealed Sources and Devices No. CA0406S121S

Encl: (1) Naval Radioactive Materials Permit No. 45-43505-B1NP, Amendment No. 3CC

1. This corrected copy is being issued as amendment 3CC to correct condition 7.g. Condition 7.g now reflects the capsule number (series) of reference (a).

2. No other changes were made to the text in bold typeface, issued per amendment No. 3 as a result of this corrected copy.

3. For further information contact Mr. Kevin Huhn at DSN 953-4692 or commercial (757) 887-4692.

D. W. FLETCHER
By direction

Copy to:
COMNAVSEASYSCOM WASHINGTON DC (jerry.n.sanders@navy.mil; david.farrand@navy.mil)
NRC (shawn.seeley@nrc.gov; robin.elliott@nrc.gov)
EODTEU TWO (curtis.larson@navy.mil; randal.oakley@navy.mil; trevor.maxwell@navy.mil; jeff.p.oconnorl@navy.mil)
NAVSEA DET RASO YORKTOWN VA (nsscnavsearasoadmin@navy.mil)

SUPPLEMENTARY SHEET

Naval Radiation Safety Committee

Radioactive Materials Permit

PERMIT NO.
45-43505-B1NP

AMENDMENT NO.
3CC

10. The Command's Radioactive Materials Permit is amended and reprinted in its entirety. Changes to the permit are printed in **bold** typeface.

11. a. The Radiation Safety Officer for this permit is Mr. Randal Oakley.

    b. The Assistant Radiation Safety Officers are **EODCS(EWS) Thomas Mastney, EODC(EWS) Trevor Maxwell, EODC(EWS) Dylan Spencer, EODC(EWS) Jeffrey O'Connor, and EOD1(EWS) Jeremy Winslow.**

12. Radioactive material shall be used by, or under the supervision of, Mr. Randal Oakley, **EODCS(EWS) Thomas Mastney, EODC(EWS) Trevor Maxwell, EODC(EWS) Dylan Spencer, EODC(EWS) Jeffrey O'Connor, and EOD1(EWS) Jeremy Winslow.**

13. Radioactive material shall be stored and used at **Building 821,** Nuclear Division vault, Room 1061, **Building 401, bunker vault, Room 114,** Fort Story, VA and at temporary jobsites outside the immediate vicinity of the command provided such temporary jobsites are under the jurisdiction of the U.S. Navy.

14. **a. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State. Notwithstanding, sealed sources designed to primarily emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.**

    b. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State, before the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.

    c. Sealed sources need not be tested if they contain only hydrogen-3; or they contain only a radioactive gas; or the

SUPPLEMENTARY SHEET

Naval Radiation Safety Committee

Radioactive Materials Permit

PERMIT NO.
45-43505-B1NP

AMENDMENT NO.
3CC

half-life of the isotope is 30 days or less; or they contain not more than 100 microcuries of beta- and/or gamma-emitting material or not more than 10 microcuries of alpha-emitting material.

d. The leak test shall be capable of detecting the presence of 0.005 microcuries (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcuries (185 becquerels) or more of removable contamination, immediate notification and a follow up written report shall be made to NAVSEADET RASO in accordance with NAVSEA S0420-AA-RAD-010. The source shall be immediately removed from service and decontaminated, repaired, or disposed of in accordance with Nuclear Regulatory Commission regulations.

e. Tests for leakage and/or contamination, limited to leak test sample collection, shall be performed by the permittee or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. The permittee is not authorized to perform the analysis; analysis of leak test samples must be performed by persons specifically licensed by the Naval Radiation Safety Committee, NRC or an Agreement State to perform such services.

f. Records of leak test results shall be kept in units of microcuries and shall be maintained **indefinitely.**

g. Sealed sources need not be tested if they are in storage and are not being used; **however,** when they are removed from storage for use or transferred to another person and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

15. Sealed sources or detector cells containing radioactive material shall not be opened or sources removed from source holders by the command.

16. The command shall conduct a physical inventory every six months to account for all sources and/or devices received and

SUPPLEMENTARY SHEET

Naval Radiation Safety Committee

Radioactive Materials Permit

PERMIT NO.
45-43505-B1NP

AMENDMENT NO.
3CC

possessed under the permit. Records of inventories shall be maintained **indefinitely and shall include the information required by NAVSEA S0420-AA-RAD-010.**

17. The command is authorized to transport radioactive material in accordance with the provisions of 10 CFR 71, "Packaging and Transportation of Radioactive Material" and "Defense Transportation Regulations, DTR 4500.9-R."

18. The command shall comply with and maintain current copy of the NAVSEA S0420-AA-RAD-010, Radiological Affairs Support Program Manual.

19. **This NRMP is prohibited from allowing Mr. Scott W. Frampton any occupational involvement in NRMP activities.**

20. Except as specifically provided otherwise by this permit, the command shall conduct its program in accordance with the statements, representations, and procedures contained in the documents including any enclosures listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the command's application and correspondence are more restrictive than the regulations.

    a. **EODTEU TWO ltr 5104 Ser N73/092 of 11 April 2014 (Renewal, new procedures, added sources and changed ARSOs) Amendment 3**

DATE: 27 AUG 14

D. W. FLETCHER
CDR, MSC, USN
Executive Secretary
Naval Radiation Safety Committee

NAVAL RADIOACTIVE MATERIALS PERMIT

Pursuant to the authority stated in OPNAVINST 6470.3A, Naval Radiation Safety Committee, and in reliance on statements made by the applicant, permission is hereby granted for the acquisition, receipt, possession, use, storage and disposal of radioactive materials listed below subject to the conditions listed in this permit.

1 - COMMAND	2 - PERMIT NO.
COMMANDING OFFICER EOD TRAINING & EVALUATION UNIT TWO 821 BLASTERS COVE FORT STORY, VA 23459-**5324**	45-43505-B1NP
	3 - AMENDMENT NO. 3CC
	4 - DOCKET NO.
	5 - EXPIRATION DATE 31 MAY 2019

6 - RADIOACTIVE MATERIAL	7 - CHEMICAL/ PHYSICAL FORM	8 - MAXIMUM QUANTITY AUTHORIZED
A. Cobalt-60	**A. Sealed source, (Isotope Products Laboratory, Model 193 series 3011, SSDR CA0406S126S)**	**A. 25 millicuries (925 megabecquerels) per source; Not to exceed 50 millicuries (1.85 gigabecquerels) total**
B. Cobalt-60	**B. Sealed Source,** (Isotope Products Laboratory, Model 193 series 3011, SSDR CA0406S126S)	**B.** 10 millicuries **(370 megabecquerels)** per source; Not to exceed 30 millicuries **(1.11 gigabecquerels) total**
C. Cobalt-60	**C. Sealed Source, (Isotope Products Laboratory, Model 193 series 3011, SSDR CA0406S126S).**	**C. 5 millicuries (185 megabecquerels) per source; Not to exceed 10 millicuries (370 megabecquerels) total**

NAVAL RADIATION SAFETY COMMITTEE

OPNAV 6470/1 (4-86)

SUPPLEMENTARY SHEET

Naval Radiation Safety Committee

Radioactive Materials Permit

PERMIT NO.
45-43505-B1NP

AMENDMENT NO.
3CC

D. Cesium-137	**D. Sealed Source (Isotope Products Laboratory , Model 193 series 3011, SSDR CA0406S126S)**	**D. 100 millicuries (3.7 gigabecquerels) per source; Not to exceed 200 millicuries (7.4 gigabecquerels) total**
E. Cesium-137	**E. Sealed Source** (Isotope Products Laboratory , Model 193 series 3011, SSDR CA0406S126S)	**E.** 50 millicuries **(1.85 gigabecquerels)** per source; Not to exceed 150 millicuries **(5.55 gigabecquerels) total**
F. Cesium-137	**F. Sealed Source (Isotope Products Laboratory , Model 193 series 3011, SSDR CA0406S126S)**	**F. 30 millicuries (1.11 gigabecquerels) per source; Not to exceed 60 millicuries (2.22 gigabecquerels) total**
G. Selenium-75	**G. Sealed Source (Isotope Products Laboratory , Model R-75 series 3616, SSDR CA0406S121S)**	**G. 100 millicuries (3.7 gigabecquerels) per source; Not to exceed 200 millicuries (7.4 gigabecquerels) total**

SUPPLEMENTARY SHEET

Naval Radiation Safety Committee

Radioactive Materials Permit

PERMIT NO.
45-43505-B1NP

AMENDMENT NO.
3CC

H. Barium-133	H. Sealed Source (Isotope Products Laboratory , Model 193 series 3011, SSDR CA0406S126S)	H. 100 millicuries (3.7 gigabecquerels) per source; Not to exceed 200 millicuries (7.4 gigabecquerels) total
I. Barium-133	I. Sealed Source (Isotope Products Laboratory , Model 193 series 3011, SSDR CA0406S126S)	I. 400 microcuries (14.8 megabecquerels) per source; Not to exceed 800 microcuries (29.6 megabecquerels) total
J. Californium-252	J. Special Form, Sealed Source (Isotope Products Laboratory , Model N-252 series 3014, SSDR CA0406S102S)	J. 500 microcuries (18.5 megabecquerels) per source; Not to exceed 1.5 millicuries (55.5 megabecquerels) total
K. Americium-241	K. Special Form Am-Be neutron sealed source (Isotope Products Laboratory , Model AM.1.N03, SSDR CA0406S232S)	K. 1 curie (37 gigabecquerels) per source; Not to exceed 1 curie (37 gigabecquerels) total

SUPPLEMENTARY SHEET

Naval Radiation Safety Committee

Radioactive Materials Permit

PERMIT NO.
45-43505-B1NP

AMENDMENT NO.
3CC

L.	Barium-133	**L.** **Deposited** Metallic Salts (Isotope Products Laboratories Model GF **Type** D **Series**, SSDR CA0406S106S)	**L.** 20 microcuries **(740 kilobecquerels)** per source; not to exceed 40 microcuries **(1.48 megabecquerels) total**
M.	Uranium-235	**M.** Plastic encapsulated rod (Isotope Products Laboratories Model GF **Type** R **Series**, SSDR CA0406S107S)	**M.** 46.3 milligrams per source; not to exceed 92.6 milligrams **total**
N.	Plutonium-239	**N.** Electroplated onto Platinum Clad Nickel Foil (Isotope Products Laboratories Model AF **Type** PM **Series**, SSDR CA406S117S)	**N.** 1.62 micrograms per source; not to exceed 3.24 micrograms **total**

9. Authorized Use

A. through **K.** For use in providing realistic training for and improve EOD platoon capabilities in radiological search, identification, and handling procedures for Radiological Dispersal Devices (RDD), Improvised Nuclear Devices (IND) and nuclear weapon accident and incident operations. Training will also be provided to other DoD activities and federal, state, and local law enforcement agencies as required.

L. through **N.** For use in classroom training exercises to demonstrate instrument operation.

CONDITIONS